



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/773,549	02/01/2001	Georg Bernreuther	P66244US0	7243

136 7590 09/20/2002

JACOBSON HOLMAN PLLC  
400 SEVENTH STREET N.W.  
SUITE 600  
WASHINGTON, DC 20004

EXAMINER

CUEVAS, PEDRO J

ART UNIT	PAPER NUMBER
----------	--------------

2834

DATE MAILED: 09/20/2002

10

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/773,549

Applicant(s)

BERNREUTHER ET AL.

Examiner

Pedro J. Cuevas

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 June 2002.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 3,4 and 6-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 3,4 and 6-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 February 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 7.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments with respect to claims 3, 4 and 6-17 have been considered but are moot in view of the new ground(s) of rejection.

### ***Allowable Subject Matter***

2. The indicated allowability of cancelled claim 5 and new independent claim 17 is withdrawn in view of the newly discovered reference(s) to Iwasa et al. and Best. Rejections based on the newly cited reference(s) follow.

### ***Drawings***

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the rotor and the plurality of cores must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objections to the drawings will not be held in abeyance.

### ***Specification***

4. Claim 17 is objected to because of the following informalities: the coils have to be wound on the cores, not the coils themselves as written in the claim. The examiner believes this is a typographical error and examined the claim according to the previous assertion. Appropriate correction is requested.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 17, 3-4, 7-9 and 12-16 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,747,897 to Iwasa et al.

Iwasa et al. clearly teaches the construction of a multi-phase motor comprising:

a rotor (1) and stator (80) parts arranged concentrically to the rotor;

a plurality of cores (4, 5, 11 and 12);

a plug part (84) with plug pins (85) with strip conductors for electrical connection to a power supply source;

and a plurality of coils (6 and 13) with each coil consisting of a winding wire wound upon one of said cores, the winding wire being connected directly to one of the plug pins, and corresponding connecting pieces having a wire duct in which the winding wire section is guided and lies exposed on an outside surface;

an electrically insulating connecting piece (22a) between each coil and each plug part for receiving a section of the winding wire;

a plug housing made integral with a motor housing;

each connecting piece is made integrally with a pin strip that holds the plug pins;

and

the coil carriers are made integrally with the connecting element and the pin strip;

Art Unit: 2834

at least one part of the winding wires is connected, via a passive electrical structural member with the one of the plug pins and the strip conductors;

in the plug part, there is firmly attached a first plurality of plug pins and a second plurality of plug pins firmly attached in a separate removably retained pin strip;

the first and second plurality of plug pins is arranged in one row; and

a coil carrier for each coil, wherein:

the coil carrier receives one of said coils, each coil carrier is made integral with the connecting piece and the plug housing, and

the coil carriers are made in one part and have an opening in which is received the coil body.

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 6 and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,747,897 to Iwasa et al. in view of U.S. Patent No. 4,616,149 to Best.

Iwasa et al. disclose the construction of a multi-phase motor as described above.

However, it fails to disclose:

pin strips, each holding a plug housing by a catch connection; and

the winding wires are connected, in an electrically conducting manner, with the one of the plug pins and the strip conductors in a locking manner.

Art Unit: 2834

Best teach an connector arrangement connecting, in an electrically conducting manner, one of the plug pins and the strip conductors in a locking manner for the purpose of joining the cable ends of a stator winding of electric motors.

It would have been obvious to one skilled in the art at the time the invention was made to use the connector arrangement disclosed by Best on the multi-phase motor disclosed by Iwasa et al. for the purpose of joining the cable ends of a stator winding of electric motors.

***Conclusion***


9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Néstor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas  
September 12, 2002

  
NESTOR RAMIREZ  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800